

1 BILL NO. S-96-03-13

2 SPECIAL ORDINANCE NO. 2896

3 AN ORDINANCE certifying and  
4 approving the need for a  
5 consultant to provide professional  
6 engineering and design services  
7 for automation projects at the  
8 Filtration Plant and the St. Joe  
9 Dam through the Fort Wayne Board  
10 of Public Works.

11 WHEREAS, the City of Fort Wayne through its Board of  
12 Public Works desires to have professional engineering and design  
13 services to complete Filtration Plant lab automation, high  
14 service pump automation, chemical feeding equipment automation  
15 and installation of the computerized Office Information System;  
16 and automation of the chemical feeding equipment and raw water  
17 pumping upgrade at the St. Joe Dam; and

18 WHEREAS, the City of Fort Wayne does not have the  
19 capability of performing this work with in-house forces; and

20 WHEREAS, the City of Fort Wayne Board of Public Works  
21 believes that there is a need to employ a consultant to perform  
22 this service; and

23 WHEREAS, it is anticipated that the amount to be paid  
24 to said consultant, on an annual basis, will be in excess of  
25 \$100,000.00.

26 NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL  
27 OF THE CITY OF FORT WAYNE, INDIANA:

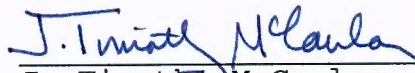
28 SECTION 1. The Common Council of the City of Fort  
29 Wayne hereby certifies and approves the need a consultant to  
30 provide professional engineering and design services to complete

1 Filtration Plant lab automation, high service pump automation,  
2 chemical feeding equipment automation and installation of the  
3 computerized Office Information System; and automation of the  
4 chemical feeding equipment and raw water pumping upgrade at the  
5 St. Joe Dam.

6 **SECTION 2.** This Ordinance shall be in full force and  
7 effect from and after its passage and any and all necessary  
8 approval by the Mayor.

9   
10 Council Member

11 APPROVED AS TO FORM  
12 AND LEGALITY

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14 J. Timothy McCaulay, City Attorney  
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# THE CITY OF FORT WAYNE



Paul Helmke  
Mayor

18 March, 1996

Fort Wayne City Council Members  
Room 126 - Council Chambers  
1 Main Street  
Fort Wayne, Indiana 46802

**RE: Filtration Plant Need for a Consultant Over \$100,000**

EMA Services, Inc has been the major consultant for automation projects at the Filtration Plant since they developed a Master Plan for automation in 1990. During the last several years EMA has been working with the Plant on several automation projects, including Lab Automation and High Service Pumping. During 1996 however, they will be working on the St. Joe Dam project and will be starting the design and engineering work for Chemical Feed automation, along with follow up work on the Lab automation and High Service Pumping projects. It is anticipated that these projects will result in EMA Services, Inc. engineering costs of over \$100,000 within 1996. As a result, we need to have the Mayor ask the City Council to approve a Consultant Resolution for EMA to continue the automation projects for the Filtration Plant.

**Details of Automation Projects:**

**Lab Automation Completion; CIP Item #2**

This project includes the installation of a LIMS ( Laboratory Information Management System) to provide a computerized network in all areas of the Lab. This system will either allow direct input of test results of raw, in process, and finished water samples or automatic downloading of data from new instruments located at the source. This data will be used to directly adjust chemical feeds and process flows. The system will also provide statistical process control charting to track reliability of finished water quality for State and Federal reporting. At completion, the analytical chemist positions will be reduced from 3 to 2 employees, and the operating chemist positions will be reduced from 24 hours each day to 8 hours a day, five days a week, a reduction of three full time employees.

Cost to complete:	<b>\$72,000</b>
Savings in Manpower:	<b>\$165,000 (ongoing, annually)</b>
Estimated Completion:	<b>August, 1996</b>

**High Service Pumping Upgrade; CIP Item #3**

The High Service Pumping automation project will allow the automated start-up and shut-down of pumps in the East and West pump control areas. This project was started in early 1995 and will be completed within the next 60 days. The completion of this project will result in one high service pumper being eliminated, allowing the Plant to operate with one pumper, (4 employees).

Cost to complete:	<b>\$68,000</b>
Savings in Manpower:	<b>\$165,000 (ongoing, annually)</b>
Estimated Completion:	<b>May, 1996</b>

An Equal Opportunity Employer  
One Main Street, Fort Wayne, Indiana 46802

**Details of Automation Projects: Continued**

**Raw Water Pumping Upgrade; CIP Item #8**

The St. Joe Dam is manned by one person each shift, 24 hours a day. This project will result in the elimination of all St. Joe Dam operators. Dam operations will be controlled remotely by operators at the Filtration Plant. The facility will be checked on rounds once or twice each shift by operators from the Filtration Plant. Design and engineering for the automation project is complete, and preparations are being made to ask for construction bids in the near future.

Cost to complete:	<b>\$170,000</b>
Savings in Manpower:	<b>\$165,000 (ongoing, annually)</b>
Estimated Completion:	<b>August, 1996</b>

**Details of Automation Projects: Continued**

**Chemical and Pumping Control Upgrade; CIP Item #9**

This project involves automation of the chemical feeding equipment for processing water at the Filtration Plant. All feeding of chemicals currently requires manual adjustment of valves, feed belts, and flows to achieve proper treatment of raw to finished water. When complete, it is expected that the chemical feed operators will no longer be needed, allowing the reduction of 4 employees.

Cost to implement:	<b>\$420,000</b>
Savings in Manpower:	<b>\$165,000 (ongoing, annually)</b>
Estimated Completion:	<b>April, 1998</b>

**Office Information System; CIP Item #23**

This project involves connecting office staff computers to the local area network at the Filtration Plant, and development of interfaces to allow sharing of information among all users. Later on, it will also involve channeling data from LIMS and remote sampling devices directly into the operating system. This will allow automated chemical feed adjustments based on parameters of process water testing results. Completion of this project will result in elimination of one secretary and savings of approximately 3% of annual lime and ferri-floc costs due to improved lead and lag control of chemical feeds.

Cost to implement:	<b>\$185,000</b>
Savings Anticipated:	<b>\$65,000 (ongoing, annually)</b>
Estimated Completion:	<b>September, 1998</b>

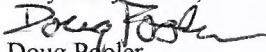
**Justification for Consultant Support:**

EMA Services, Inc. has performed automation projects throughout the United States for a number of years. They have experts in the latest technology and process implementation, and experience in development of automation systems and controls. Management at the Filtration Plant is concerned with production of a safe and adequate supply of water for our customers, but do not have the expertise necessary to accomplish these ambitious objectives to complete the automation of operations at the Plant.

We are requesting that the City Council adopt a resolution allowing for the services of EMA to allow these projects to continue. Completion of the automation projects, and the associated reductions of manpower are crucial to the attainment of the benchmarks for improvement that were established as a result of the CUCAC recommendations adopted in early 1995.

If there is any additional information needed, or if you have questions please contact the writer at the Filtration Plant number; 427-1254.

Very Truly Yours,



Doug Pooler

Superintendent, Filtration Plant



Read the first time in full and on motion by Henry,  
and duly adopted, read the second time by title and referred to the  
committee on Finance (and the City Plan Commission  
or recommendation) and Public Hearing to be held after due legal notice, at  
the Common Council Council Conference Room 128, City-County Building, Fort  
Wayne, Indiana, on \_\_\_\_\_, 19\_\_\_\_, the \_\_\_\_\_ day of  
\_\_\_\_\_, M., E.S.T. \_\_\_\_\_, at \_\_\_\_\_ o'clock

DATED: 3-26-96

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Henry,  
and duly adopted, placed on its passage. PASSED \_\_\_\_\_ LOST \_\_\_\_\_  
by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	<u>9</u>			
BENDER	<u>✓</u>			
CRAWFORD	<u>✓</u>			
EDMONDS	<u>✓</u>			
HALL	<u>✓</u>			
HAYHURST	<u>✓</u>			
HENRY	<u>✓</u>			
LUNSEY	<u>✓</u>			
RAVINE	<u>✓</u>			
SCHMIDT	<u>✓</u>			

DATED: 4-9-96

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne,  
Indiana, as (ANNEXATION) \_\_\_\_\_ (APPROPRIATION) \_\_\_\_\_ (GENERAL)  
SPECIAL) \_\_\_\_\_ (ZONING) \_\_\_\_\_ ORDINANCE \_\_\_\_\_ RESOLUTION NO. A-28-96

on the 9th day of April, 1996

ATTEST:

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

(SEAL)

OD Schmidt  
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on  
the 10th day of April, 1996,  
at the hour of 3:00 o'clock P., M., E.S.T.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 11th day of April,  
1996, at the hour of 8:30 o'clock A, M., E.S.T.

Paul Hetmke  
PAUL HETMKE, MAYOR

DIGEST SHEET

TITLE OF ORDINANCE ORDINANCE/CONSULTANT

DEPARTMENT REQUESTING ORDINANCE BOARD OF PUBLIC WORKS

SYNOPSIS OF ORDINANCE CONSULTANT WOULD PROVIDE ENGINEERING AND  
DESIGN SERVICES TO COMPLETE FILTRATION PLANT LAB AUTOMATION, HIGH  
SERVICE PUMP AUTOMATION, CHEMICAL FEEDING EQUIPMENT AUTOMATION AND  
INSTALLATION OF THE COMPUTERIZED OFFICE INFORMATION SYSTEM; AND  
AUTOMATION OF THE CHEMICAL FEEDING EQUIPMENT AND RAW WATER PUMPING  
UPGRADE AT THE ST. JOE DAM.

EFFECT OF PASSAGE CONSULTANT MAY BE HIRED.

EFFECT OF NON-PASSAGE CONSULTANT CANNOT BE HIRED AND PROJECTS WILL  
NOT BE COMPLETED.

MONEY INVOLVED (DIRECT COSTS, EXPENDITURES, SAVINGS) \_\_\_\_\_

ASSIGNED TO COMMITTEE (PRESIDENT) \_\_\_\_\_



BILL NO. S-96-03-13

REPORT OF THE COMMITTEE ON  
FINANCE  
THOMAS C. HENRY - JOHN N. CRAWFORD - CO-CHAIR  
ALL COUNCIL MEMBERS

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS  
REFERRED AN (ORDINANCE) XXXXXXXXXXXX (RESOLUTION) certifying and approving  
the need for a consultant to provide professional engineering and  
design services for automation projects at the Filtration Plant and  
the St. Joe Dam through the Fort Wayne Board of Public Works

HAVE HAD SAID (ORDINANCE) XXXXXXXXXXXX (RESOLUTION) UNDER CONSIDERATION  
AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID  
(ORDINANCE) XXXXXXXXXXXX (RESOLUTION)

DO PASS

DO NOT PASS

ABSTAIN

NO REC

*Thomas C. Henry*  
*John N. Crawford*  
*Ronald H. Hurd*  
*Celene J. Hurd*

DATED: 4-2-96

Sandra E. Kennedy  
City Clerk